

# Ordering Guide

PDR8000® – Portable Digital Repeater Rackmount

Revision 1.1

May 12, 2022



## Contents

|                                                                 |    |
|-----------------------------------------------------------------|----|
| Ordering Instructions – PLEASE READ CAREFULLY .....             | 3  |
| Important Notes .....                                           | 4  |
| 1. PDR8000® Rackmount Frequency Type .....                      | 5  |
| PDR8000® 136-174 MHz.....                                       | 5  |
| PDR8000® 380-430 MHz.....                                       | 5  |
| PDR8000® 450-470 MHz.....                                       | 6  |
| 2. Optional Features .....                                      | 7  |
| 3. Internal Duplexer Options .....                              | 8  |
| 4. 50-Watt Booster Power Amplifier Option .....                 | 10 |
| 5. PDR8000® Rackmount Options & Spares Ordered Separately ..... | 11 |
| 6. Services .....                                               | 12 |

## Ordering Instructions – PLEASE READ CAREFULLY

If only ordering spares or accessories, proceed to step 5. If only ordering services, proceed to section 6.

1. Select PDR8000® Rackmount Frequency type (Section 1). NOTE: PDR8000® Frequency type model provides a repeater designed to fit into a standard 19” rack. includes Display with local Channel Change. User must supply their own 12VDC Power Supply.
2. Select optional features if applicable to your intended operation (Section 2).
3. For full duplex operation, select the appropriate duplexer option (Section 3). NOTE the frequency requirements can be found in Section 3 to ensure your frequency plan meets the operating requirements. Duplexer is not mandatory and the ‘No Duplexer’ option can be chosen when full duplex capability is not desired.
4. Select optional 50- Watt Booster Power Amplifier for PDR8000® RACKMOUNT (section 4)
5. Select Options and Spares (Section 5).
6. Select optional services as required (section 6).

## Important Notes

1. Only the frequency bands shown in Section 3 are available as standard configurations. For custom filtering, please contact Futurecom: [sales@futurecom.com](mailto:sales@futurecom.com)  
  
1 Transmit and 1 Receive frequency are required for ordering. Units will be factory tuned to these frequencies, so accuracy is important.
2. Standard PDR8000® delivery time is 10-12 weeks from the time the order is placed and the frequency information is provided. Frequency information must be accurate and in accordance with the frequency plan requirements described in this document in order to avoid delays.
3. Duplexer is not mandatory and the 'No Duplexer' option can be chosen when full duplex capability is not desired.
4. PDR8000® Rackmount models require users to supply their own 12VDC Power Supply.
5. For all sales inquiries, please contact Futurecom sales at [sales@futurecom.com](mailto:sales@futurecom.com).
6. All pricing for the PDR8000® can be found in Motorola P-CAT.
7. Programming software is available for download at <http://futurecom.com/support/documentation-software/>
8.  Subscribe to our newsletter if you want to be informed about new releases and updates. Please visit <http://futurecom.com/support/newsletter/>



**Frequency plans that do not meet Futurecom's specified frequency separation are custom orders. Please contact Futurecom to determine if custom frequency plan is viable and for quotations on viable plans. [sales@futurecom.com](mailto:sales@futurecom.com)**

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## 1.PDR8000® Rackmount Frequency Type

### PDR8000® 136-174 MHz

| <u>ORDER CODE</u> | <u>ITEM</u>                                                       | <u>INCLUDES</u>                                                                                   | <u>PREREQUISITES</u> | <u>NOTES</u>                                                                                                                      |
|-------------------|-------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|----------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| <b>TT4079A</b>    | <b>Base Order Code</b><br><br><b>PDR8000® – VHF<br/>RACKMOUNT</b> | VHF repeater designed to fit into a standard 19" rack includes Display with local Channel Change. |                      | Wireline Connections; see section 2 for wireline connections options<br><br><b>User must supply their own 12VDC Power Supply.</b> |

### PDR8000® 380-430 MHz

| <u>ORDER CODE</u> | <u>ITEM</u>                                                                       | <u>INCLUDES</u>                                                                                      | <u>PREREQUISITES</u> | <u>NOTES</u>                                                                                                                      |
|-------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|----------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| <b>TT4080A</b>    | <b>Base Order Code</b><br><br><b>PDR8000® - UHF<br/>380-430 MHz<br/>RACKMOUNT</b> | UHF 380-430 MHz designed to fit into a standard 19" rack includes Display with local Channel Change. |                      | Wireline Connections; see section 2 for wireline connections options<br><br><b>User must supply their own 12VDC Power Supply.</b> |

## PDR8000® 450-470 MHz

| <u>ORDER CODE</u> | <u>ITEM</u>                                                                       | <u>INCLUDES</u>                                                                                      | <u>PREREQUISITES</u> | <u>NOTES</u>                                                                                                                      |
|-------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|----------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| <b>TT4081A</b>    | <b>Base Order Code</b><br><br><b>PDR8000® - UHF<br/>450-470 MHz<br/>RACKMOUNT</b> | UHF 450-470 MHz designed to fit into a standard 19" rack includes Display with local Channel Change. |                      | Wireline Connections; see section 2 for wireline connections options<br><br><b>User must supply their own 12VDC Power Supply.</b> |

## 2.Optional Features

| <u>ORDER CODE</u> | <u>ITEM</u>                                                                                                                                                                                                                                                 | <u>PREREQUISITES</u>      | <u>NOTES</u>                                                                           |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|----------------------------------------------------------------------------------------|
| <b>TT06253AA</b>  | <b>Add V.24 Wireline Operation</b>                                                                                                                                                                                                                          | TT4079A, TT4080A, TT4081A | Can also be added to field units as add-on functionality (Order Code: DDN2634A)        |
| <b>TT06319AA</b>  | <b>Deployment Profiles Capability</b><br><br>If the option for Deployment Profile Capability is purchased, PDR8000® can be programmed with up to ten different Deployment Profiles, each uniquely defining the operational characteristics of the PDR8000®. | TT4079A, TT4080A, TT4081A | Can also be added to field units as add-on functionality<br><br>(Order Code: DDN2633A) |

| <u>ORDER CODE</u> | <u>ITEM</u>                                                                       | <u>PREREQUISITES</u>      | <u>NOTES</u>                                                                                                                                                                                                                                  |
|-------------------|-----------------------------------------------------------------------------------|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>TT06582AA</b>  | Add DFSI Operation:<br>Provides P25 standard IP wireline fixed station interface. | TT4079A, TT4080A, TT4081A | Can also be added to field units as add-on functionality<br><br>(Order Code: DDN3285A)<br><br><b>DFSI Protocol Version 1 on the Ethernet interface. Analog operation (or Mixed-mode operation) is supported on Ethernet (DFSI) interface.</b> |

### 3. Internal Duplexer Options



Frequency plans that do not meet Futurecom's specified frequency separation are custom orders. Please contact Futurecom to determine if a custom frequency plan is viable and for quotations on viable plans.

[sales@futurecom.com](mailto:sales@futurecom.com)

| <u>OPTIONS ORDER CODE</u> | <u>ITEM</u>                                        | <u>INCLUDES</u> | <u>PREREQUISITES</u>                     | <u>NOTES</u> |
|---------------------------|----------------------------------------------------|-----------------|------------------------------------------|--------------|
| <b>TT06583AA</b>          | No Duplexer Required Option                        |                 | TT4079A, 4080A, TT4081A                  |              |
| <b>TT06584AA</b>          | Add Duplexer:<br><br>VHF 5 MHz TX to RX Separation |                 | TT4079A –<br>PDR8000® - VHF<br>RACKMOUNT |              |

|                       |                                                                                            |  |                                                         |  |
|-----------------------|--------------------------------------------------------------------------------------------|--|---------------------------------------------------------|--|
|                       | 500KHz Wide Bandpass                                                                       |  |                                                         |  |
| <b>TT06585AA</b>      | Add Duplexer:<br><br>380-430 MHz<br>10 MHz TX to RX Separation<br><br>100KHz Wide Bandpass |  | TT4080A<br><br>PDR8000®-UHF<br>380-430 MHz<br>RACKMOUNT |  |
| <b>TT06586AA</b>      | Add Duplexer<br><br>380-430 MHz<br>5 MHz TX to RX Separation<br><br>500KHz Wide Bandpass   |  | TT4080A –<br><br>PDR8000®-UHF<br>380-430 MHz            |  |
| <b>TT06587AA</b>      | Add Duplexer<br><br>450-470 MHz<br>5 MHz TX to RX Separation<br><br>500KHz Wide Bandpass   |  | TT4081A -<br><br>PDR8000®-UHF<br>450-470 MHz            |  |
| <b>CUSTOM FILTERS</b> |                                                                                            |  |                                                         |  |
| <b>TT06579AA</b>      | ENGINEERING DESIGN TIME – Non-Recurring Engineering Fee (NRE)                              |  |                                                         |  |

|                  |                                                                                                                                                                                                                                                                                                                                                       |  |  |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| <b>TT06580AA</b> | <p>CUSTOM FILTER DESIGN – TIER 1 (Per Unit)</p> <p>This option is for a custom filter design and must be ordered if frequency plans do not meet Futurecom's specified frequency separation stated in the ordering guide in order to determine if a custom frequency plan is viable, please contact sales@futurecom.com prior to placing an order.</p> |  |  |
| <b>TT06581AA</b> | <p>CUSTOM FILTER DESIGN – TIER 2 (Per Unit)</p> <p>This option is for a custom filter design and must be ordered if frequency plans do not meet Futurecom's specified frequency separation stated in the ordering guide in order to determine if a custom frequency plan is viable, please contact sales@futurecom.com prior to placing an order.</p> |  |  |

## 4.50-Watt Booster Power Amplifier Option

| <u>OPTIONS<br/>ORDER CODE</u> | <u>ITEM</u>                                              | <u>PREREQUISITES</u> | <u>NOTES</u>                       |
|-------------------------------|----------------------------------------------------------|----------------------|------------------------------------|
| <b>TT3936A</b>                | VHF 50-Watt Amplifier for PDR8000® Rackmount             | TT4079A              |                                    |
| <b>TT3937A</b>                | UHF 380-430 MHz 50-Watt Amplifier for PDR8000® Rackmount | TT4080A              | (Not available for sale in Canada) |
| <b>TT3938A</b>                | UHF 450-470 MHz 50-Watt Amplifier for PDR8000® Rackmount | TT4081A              | (Not available for sale in Canada) |

## 5.PDR8000® Rackmount Options & Spares Ordered Separately

| <u>ORDER CODE</u> | <u>DESCRIPTION</u>                                                    |  |
|-------------------|-----------------------------------------------------------------------|--|
| <b>TT3935A</b>    | Rackmount Alarm capability - contact closure type, temperature, power |  |

### Add-On Functionality Software – When not ordered originally with PDR8000®

| <u>ORDER CODE</u> | <u>DESCRIPTION</u>                                                                                                                                                  |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>DDN2633A</b>   | Enable Deployment Profiles Capability                                                                                                                               |
| <b>DDN2634A</b>   | Enable V.24                                                                                                                                                         |
| <b>DDN3285A</b>   | PDR8000® DFSI CAPABILITY - DFSI Protocol Version 1 on the Ethernet interface. Analog operation (or Mixed-mode operation) is supported on Ethernet (DFSI) interface. |

## 6. Services

Futurecom's standard hardware warranty is 18 months starting from the date the product ships from Futurecom. Please reference Futurecom's Terms and Conditions of Sale, Section 7 regarding standard hardware warranty <https://www.futurecom.com/terms-and-conditions/>

| <u>ORDER CODE</u> | <u>DESCRIPTION</u>                                 | <u>Notes and Conditions</u>                                                                                                                                                                                |
|-------------------|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>DDN2303A</b>   | PDR8000® 4 Year Extended Hardware Warranty         | <p>Extends standard 18 month hardware warranty by 4 years. Can only be purchased once per unit.</p> <p>Must be purchased prior to expiration of standard hardware warranty.</p>                            |
| <b>DDN2302A</b>   | PDR8000® 1 Year Extended Hardware Warranty         | <p>Extends existing hardware warranty by one year.</p> <p>Must be purchased prior to expiration of any existing hardware warranty. Standard 18 month warranty can be extended by a maximum of 4 years.</p> |
| <b>DDN1971A</b>   | On-site and/or Virtual Programming Support (Basic) | Maximum 1 day; see EXTENDED support for additional days.                                                                                                                                                   |

| <u>ORDER CODE</u> | <u>DESCRIPTION</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <u>Notes and Conditions</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Minimum 2 weeks advance notice required however subject to resource availability. Applies to North America only.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>DDN1972A</b>   | On-site and/or Virtual Programming Support (Extended)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Must purchase BASIC virtual technical and programming support.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>DDN1974A</b>   | <p>On-site and/or Virtual Training (BASIC) 2 Courses Available:</p> <p><b>1. Training the Trainer/end user</b></p> <p>1 Day (Est 4 hours) end user training gives the end user a general understanding of Futurecom solutions through your agencies particular use case, highlighting best practices through situations commonly seen in the field during deployment situations. Participants will have hands on training with the newly implemented solution for practical operation and control.</p> <p><b><u>OR</u></b></p> <p><b>2. Technical and Programming Training</b></p> <p>1 Day Technical and Programming training gives the radio technician an in depth understanding on how the DVR-LX®/VRX1000/PDR8000® is integrated into the everyday operation of the agency. Highlighting code plug compatibility, Futurecom Repeater Configurator</p> | <p>Maximum 1 day; see EXTENDED training for additional days.</p> <p>Minimum 2 weeks advance notice required however subject to resource availability. Applies to North America only.</p> <p>Training the trainer requires the newly implemented DVRS/VRX1000/PDR8000® to be tested and in use on the network to get the most out of the Training the Trainer.</p> <p>Standard training package. Includes soft copy of training materials. Customized training available subject to content and price negotiation.</p> <p>Contact Futurecom Systems Group, ULC for a pre-training checklist to insure your solution is ready for Basic virtual Training</p> |

| <u>ORDER CODE</u> | <u>DESCRIPTION</u>                                                            | <u>Notes and Conditions</u>                                                                                                                                                                                                                                                                                              |
|-------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                   | (FRC) software functionality and programming for optimal end user experience. | Technical and Programming Training, Futurecom Systems Group, ULC requires at least two full functioning Portable radios (PSUs) programmed to the current system, at least one installed DVR-LX®/VRX1000/PDR8000®. For DVRS and VRX1000 use a Mobile Radio (MSU) radio set is required to conduct this training properly. |
| <b>DDN1975A</b>   | On-site and/or Virtual Training (EXTENDED)                                    | Must purchase BASIC virtual training                                                                                                                                                                                                                                                                                     |